

Table 1

| Strains | | Supernatant fraction ($\mu\text{g/L}$ of culture solution) | | Cell fraction | |
|------------|---|--|------|---------------|------|
| Strain No. | Genus | FOH | GGOH | FOH | GGOH |
| ATCC 12341 | <i>Saccharomyces cerevisiae</i> | 0.0 | 0.0 | 0.0 | 14.4 |
| K 4010 | <i>Saccharomyces</i> sp. | 0.0 | 0.0 | 0.0 | 9.1 |
| K 4031 | <i>Saccharomyces</i> sp. | 0.0 | 0.0 | 0.0 | 7.0 |
| K 4037 | <i>Saccharomyces</i> sp. | 0.0 | 0.0 | 0.0 | 5.8 |
| K 4039 | <i>Saccharomyces</i> sp. | 0.0 | 0.0 | 0.0 | 5.5 |
| K 4041 | <i>Saccharomyces</i> sp. | 0.0 | 0.0 | 0.0 | 8.4 |
| IFO 0565 | <i>Saccharomyces cerevisiae</i> | 0.0 | 0.0 | 0.0 | 54.7 |
| IFO 0222 | <i>Saccharomyces cerevisiae</i> | 0.0 | 0.0 | 0.0 | 3.3 |
| IFO 0216 | <i>Saccharomyces cerevisiae</i> | 0.0 | 0.0 | 0.0 | 5.8 |
| ATCC 9080 | <i>Saccharomyces cerevisiae</i> | 0.0 | 0.0 | 0.0 | 5.7 |
| IFO 0106 | <i>Saccharomycopsis fibuligera</i> | 0.0 | 0.0 | 0.0 | 3.4 |
| IFO 0125 | <i>Williopsis saturnus</i> var. <i>saturus</i> | 0.0 | 0.0 | 0.0 | 5.4 |
| IFO 0807 | <i>Pichia silvicola</i> | 0.0 | 0.0 | 0.0 | 1.2 |
| IFO 0980 | <i>Nakazawaea holstii</i> | 0.0 | 0.0 | 0.0 | 5.2 |
| K 4327 | <i>Hansenula polymorpha</i> | 0.0 | 0.0 | 0.0 | 4.7 |
| IFO 0151 | <i>Kloeckera japonica</i> | 0.0 | 0.0 | 0.0 | 10.2 |
| IFO 0128 | <i>Pichia membranaefaciens</i> | 0.0 | 0.0 | 0.0 | 11.0 |
| K 4261 | <i>Pichia aganobii</i> | 0.0 | 4.0 | 0.0 | 0.0 |
| IFO 0941 | <i>Williopsis saturnus</i> var. <i>saturus</i> | 0.0 | 0.0 | 0.0 | 6.7 |
| IFO 0013 | <i>Candida krusei</i> | 0.0 | 0.0 | 0.0 | 16.5 |
| IFO 0706 | <i>Candida kefyr</i> | 0.0 | 0.0 | 0.0 | 4.9 |
| IFO 0716 | <i>Candida tenuis</i> | 0.0 | 0.0 | 0.0 | 8.7 |
| IFO 0617 | <i>Kluyveromyces marxianus</i> | 0.0 | 0.0 | 0.0 | 25.2 |
| IFO 0762 | <i>Candida solani</i> | 0.0 | 0.0 | 0.0 | 29.0 |
| IFO 1060 | <i>Candida albicans</i> | 0.0 | 2.4 | 0.0 | 0.0 |
| IFO 0720 | <i>Candida catenulata</i> | 0.0 | 0.0 | 0.0 | 25.9 |

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 2

| Strains | | | Supernatant fraction (μg/L of culture solution) | | Cell fraction | |
|--------------|---------------------|--------------|--|------|---------------|------|
| Strain No. | Genus | | FOH | GGOH | FOH | GGOH |
| K 4002 | Saccharomyces | sp. | 4.4 | 0.0 | 0.0 | 10.9 |
| K 4006 | Saccharomyces | sp. | 4.2 | 0.0 | 4.3 | 6.7 |
| K 4013 | Saccharomyces | sake | 0.0 | 0.0 | 7.3 | 5.0 |
| K 4015 | Saccharomyces | sake | 7.9 | 0.0 | 6.6 | 7.9 |
| K 4016 | Saccharomyces | sake | 4.5 | 0.0 | 2.2 | 6.5 |
| K 4017 | Saccharomyces | sake | 4.3 | 0.0 | 7.9 | 7.9 |
| K 4018 | Saccharomyces | sake | 4.4 | 0.0 | 5.0 | 9.9 |
| K 4020 | Saccharomyces | sake | 0.0 | 0.0 | 2.8 | 5.4 |
| K 4022 | Saccharomyces | sake | 0.0 | 0.0 | 2.1 | 4.7 |
| K 4023 | Saccharomyces | sake | 0.0 | 0.0 | 5.2 | 11.5 |
| K 4025 | Saccharomyces | sake | 5.0 | 0.0 | 5.5 | 2.0 |
| K 4026 | Saccharomyces | sake | 0.0 | 0.0 | 2.6 | 7.6 |
| K 4029 | Saccharomyces | sake | 0.0 | 0.0 | 2.2 | 2.3 |
| K 4030 | Saccharomyces | sp. | 5.1 | 0.0 | 4.6 | 3.7 |
| K 4036 | Saccharomyces | sp. | 0.0 | 0.0 | 4.1 | 15.2 |
| K 4045 | Saccharomyces | cerevisiae | 0.0 | 0.0 | 44.9 | 18.6 |
| K 4102 | Saccharomyces | ellipsoideus | 0.0 | 0.0 | 22.9 | 7.2 |
| K 4103 | Saccharomyces | cerevisiae | 0.0 | 0.0 | 22.6 | 8.6 |
| K 4104 | Saccharomyces | cerevisiae | 0.0 | 0.0 | 15.8 | 31.7 |
| IFO 0252 | Saccharomyces | rosei | 0.0 | 0.0 | 28.5 | 39.0 |
| IFO 0288 | Kluyveromyces | marxianus | 0.0 | 0.0 | 11.3 | 22.6 |
| Kyokai No. 2 | Saccharomyces | sake | 0.0 | 0.0 | 9.7 | 26.1 |
| IFO 0422 | Torulaspora | delbrueckii | 0.0 | 0.0 | 8.2 | 11.9 |
| IFO 0487 | Zygosaccharomyces | rouxii | 0.0 | 0.0 | 4.9 | 14.3 |
| IFO 1346 | Saccharomyces | cerevisiae | 0.0 | 0.0 | 4.3 | 13.1 |
| ATCC 204660 | Saccharomyces | cerevisiae | 8.7 | 0.0 | 9.3 | 26.8 |
| IFO 0339 | Saccharomycodes | ludwigii | 15.3 | 0.0 | 6.0 | 80.9 |
| IAM 4842 | Schizosaccharomyces | octosporus | 2.7 | 0.0 | 2.2 | 12.1 |
| IFO 1116 | Wickerhamia | fluorescens | 18.7 | 0.0 | 4.2 | 23.0 |
| IFO 0794 | Debaryomyces | hansenii | 4.8 | 2.7 | 7.7 | 11.5 |
| | | var. fabryi | | | | |
| IFO 1359 | Debaryomyces | castellii | 18.5 | 0.0 | 6.3 | 21.1 |

(Continuation of Table 2)

| | | | | | |
|----------|---|------|-----|------|-------|
| JCM 2169 | <i>Debaryomyces vanriijiae</i> var <i>vanriijiae</i> | 73.7 | 0.0 | 14.3 | 6.2 |
| IFO 0115 | <i>Hanseniaspora valbyensis</i> | 13.6 | 0.0 | 7.4 | 103.5 |
| IFO 0118 | <i>Pichia anomala</i> | 0.0 | 0.0 | 2.2 | 15.3 |
| IFO 0569 | <i>Pichia anomala</i> | 0.0 | 0.0 | 7.3 | 28.2 |
| IFO 0941 | <i>Williopsis saturnus</i> var. <i>saturnus</i> | 4.7 | 0.0 | 69.8 | 78.7 |
| IFO 1475 | <i>Ogataea polymorpha</i> | 0.0 | 0.0 | 13.5 | 36.1 |
| IFO 1670 | <i>Pichia naganishii</i> | 1.2 | 2.1 | 0.0 | 0.0 |
| IFO 0707 | <i>Pichia anomala</i> | 8.6 | 0.6 | 0.0 | 12.3 |
| IFO 0719 | <i>Candida zeylanoides</i> | 10.2 | 0.0 | 4.4 | 20.3 |
| IFO 0701 | <i>Candida stellata</i> | 10.3 | 0.0 | 0.0 | 4.9 |
| IFO 0662 | <i>Kluyveromyces thermotolerans</i> | 13.7 | 0.0 | 10.4 | 9.2 |
| IFO 0648 | <i>Kluyveromyces lactis</i> | 16.0 | 0.0 | 6.3 | 72.9 |
| IFO 0005 | <i>Candida glabrata</i> | 35.7 | 5.4 | 4.5 | 28.3 |
| IFO 0595 | <i>Zygosaccharomyces japonicus</i> | 9.3 | 3.6 | 0.0 | 0.0 |

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 3

| Strains | | Supernatant fraction | | Cell fraction | |
|------------|------------------------------|----------------------------|------|---------------|------|
| | | (μg/L of culture solution) | | | |
| Strain No. | Genus | FOH | GGOH | FOH | GGOH |
| K 4003 | Saccharomyces sp. | 5.0 | 0.0 | 19.3 | 0.0 |
| K 4004 | Saccharomyces sp. | 10.6 | 0.0 | 15.2 | 0.0 |
| K 4011 | Saccharomyces sake | 0.0 | 0.0 | 9.0 | 0.0 |
| K 4021 | Saccharomyces sake | 0.0 | 0.0 | 2.2 | 0.0 |
| K 4101 | Saccharomyces logos | 0.0 | 0.0 | 18.4 | 0.0 |
| IFO 0686 | Zygosaccharomyces rouxii | 0.0 | 0.0 | 10.1 | 0.0 |
| IFO 0285 | Saccharomyces dairensis | 4.4 | 0.0 | 0.0 | 0.0 |
| IFO 0262 | Saccharomyces cerevisiae | 7.1 | 0.0 | 0.0 | 0.0 |
| IFO 0021 | Zygosaccharomyces fermentati | 5.4 | 0.0 | 0.0 | 0.0 |
| IFO 0259 | Saccharomyces paradoxus | 3.2 | 0.0 | 0.0 | 0.0 |
| IFO 0539 | Saccharomyces bayanus | 1.4 | 0.0 | 0.0 | 0.0 |
| IFO 0613 | Saccharomyces bayanus | 2.3 | 0.0 | 0.0 | 0.0 |
| IFO 0346 | Schizosaccharomyces pombe | 4.4 | 0.0 | 16.8 | 0.0 |
| IFO 0358 | Schizosaccharomyces pombe | 2.3 | 0.0 | 4.7 | 0.0 |
| IFO 0023 | Debaryomyces hansenii | 12.2 | 0.0 | 0.0 | 0.0 |
| IFO 0954 | Citeromyces matritensis | 8.5 | 0.0 | 0.0 | 0.0 |
| IFO 0974 | Kuraishia capsulata | 0.0 | 0.0 | 8.2 | 0.0 |
| IFO 0963 | Pichia anomala | 0.0 | 0.0 | 9.6 | 0.0 |
| IFO 0673 | Waltomyces lipofer | 10.1 | 0.0 | 0.0 | 0.0 |
| IFO 0678 | Lypomyces starkeyi | 4.8 | 0.0 | 0.0 | 0.0 |
| IFO 0579 | Candida albicans | 12.8 | 0.0 | 0.0 | 0.0 |
| IFO 0626 | Candida utilis | 3.0 | 0.0 | 0.0 | 0.0 |
| IFO 3022 | Bacillus amyloliquefaciens | 4.1 | 0.0 | 0.0 | 0.0 |
| IFO 3030 | Bacillus pumilus | 6.0 | 0.0 | 0.0 | 0.0 |
| IFO 3762 | Staphylococcus epidermidis | 6.1 | 0.0 | 0.0 | 0.0 |
| K 876 | Pseudomonas sp. | 18.6 | 0.0 | 0.0 | 0.0 |

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 4

| Strain No. | Genus | Supernatant fraction (µg/L of culture solution) | | | | Cell fraction | | |
|------------|-----------------------|--|-----|-----|--|---------------|-----|-----|
| | | NE | FOH | G0H | | NE | FOH | G0H |
| IF0 12865 | Streptomyces gardneri | 0.0 | 0.0 | 0.0 | | 11.5 | 0.0 | 0.0 |
| IF0 3384 | Nocardia asteroides | 0.0 | 0.0 | 0.0 | | 14.2 | 0.0 | 0.0 |
| IF0 14340 | Nocardia fusca | 0.0 | 0.0 | 0.0 | | 6.4 | 0.0 | 0.0 |

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

Table 5

| Strain No. | Medium composition | Cultivation period (days) | Supernatant fraction ($\mu\text{g/L}$ of culture solution) | | | |
|------------|--------------------|------------------------------|---|-------|---------------------|------|
| | | | Phosphatase-untreated | | Phosphatase-treated | |
| | | | FOH | GGOH | FOH | GGOH |
| IFO 0005 | YM | 1 | 0.0 | 0.0 | 1.5 | 0.0 |
| | | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 3 | 0.0 | 0.0 | 0.0 | 0.0 |
| | YM+Glc | 1 | 0.0 | 0.0 | 6.1 | 0.0 |
| | | 2 | 0.0 | 0.0 | 9.5 | 0.0 |
| | | 3 | 29.4 | 2.3 | 13.9 | 0.0 |
| | YM+Glc+SBO | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 135.6 | 92.0 | 69.9 | 31.5 |
| | | 3 | 850.7 | 416.5 | 116.6 | 40.0 |
| IFO 0115 | YM | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 3 | 34.0 | 0.0 | 0.0 | 0.0 |
| | YM+Glc | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 11.3 | 0.0 | 0.0 | 0.0 |
| | | 3 | 36.4 | 0.0 | 18.0 | 0.0 |
| | YM+Glc+SBO | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 24.0 | 0.0 | 5.1 | 0.0 |
| | | 3 | 30.3 | 26.5 | 7.9 | 0.0 |
| IFO 0339 | YM | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 8.7 | 0.0 | 0.0 | 0.0 |
| | | 3 | 0.0 | 0.0 | 0.0 | 0.0 |
| | YM+Glc | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 16.8 | 0.0 | 17.7 | 0.0 |
| | | 3 | 67.1 | 0.0 | 20.8 | 0.0 |
| | YM+Glc+SBO | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 11.7 | 5.3 | 0.0 | 0.0 |
| | | 3 | 85.6 | 7.3 | 6.5 | 0.0 |

FOH: farnesol

GGOH: geranylgeraniol

YM: YM medium (Difco)

YM+Glc: YM medium (Difco) + 5% glucose

YM+Glc+SBO: YM medium (Difco) + 5% glucose + 1% soybean oil

Table 6

| Strain No. | Medium composition | Cultivation period (days) | Cell fraction ($\mu\text{g/L}$ of culture solution) | | | |
|------------|--------------------|---------------------------|--|-------|---------------------|--------|
| | | | Phosphatase-untreated | | Phosphatase-treated | |
| | | | FOH | GGOH | FOH | GGOH |
| IFO 0005 | YM | 1 | 39.4 | 0.0 | 0.0 | 0.0 |
| | | 2 | 14.8 | 37.3 | 0.0 | 0.0 |
| | | 3 | 11.4 | 41.7 | 51.2 | 0.0 |
| | YM+Glc | 1 | 8.4 | 0.0 | 0.0 | 0.0 |
| | | 2 | 44.1 | 134.4 | 86.8 | 304.8 |
| | | 3 | 104.4 | 323.9 | 202.4 | 772.6 |
| | YM+Glc+SBO | 1 | 5.8 | 0.0 | 0.0 | 0.0 |
| | | 2 | 427.4 | 178.9 | 248.0 | 239.6 |
| | | 3 | 835.3 | 363.7 | 1321.6 | 1176.2 |
| IFO 0115 | YM | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 34.0 | 5.1 | 0.0 | 0.0 |
| | | 3 | 21.1 | 45.6 | 0.0 | 63.7 |
| | YM+Glc | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 46.6 | 26.1 | 23.9 | 0.0 |
| | | 3 | 54.2 | 108.5 | 78.0 | 491.8 |
| | YM+Glc+SBO | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 0.0 | 0.0 | 9.7 | 0.0 |
| | | 3 | 61.3 | 122.0 | 69.2 | 286.1 |
| IFO 0339 | YM | 1 | 18.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 16.6 | 0.0 | 0.0 | 0.0 |
| | | 3 | 19.5 | 48.3 | 0.0 | 71.0 |
| | YM+Glc | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 58.6 | 34.1 | 12.0 | 0.0 |
| | | 3 | 62.3 | 173.8 | 67.8 | 464.8 |
| | YM+Glc+SBO | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 2 | 96.4 | 10.3 | 9.3 | 0.0 |
| | | 3 | 61.6 | 103.7 | 27.9 | 135.6 |

FOH: farnesol

GGOH: geranylgeraniol

YM: YM medium (Difco)

YM+Glc: YM medium (Difco) + 5% glucose

YM+Glc+SBO: YM medium (Difco) + 5% glucose + 1% soybean oil

Table 7

Medium composition: YM medium (Difco)

| Strain No. | Strains | Supernatant fraction ($\mu\text{g/L}$ of culture solution) | | Cell fraction | |
|------------|---|--|------|---------------|------|
| | | FOH | GGOH | FOH | GGOH |
| K 4104 | <i>Saccharomyces cerevisiae</i> | 0.0 | 0.0 | 15.8 | 31.7 |
| IFO 0252 | <i>Saccharomyces rosei</i> | 0.0 | 0.0 | 28.5 | 39.0 |
| IFO 0565 | <i>Saccharomyces cerevisiae</i> | 0.0 | 0.0 | 0.0 | 54.7 |
| IFO 0941 | <i>Williopsis saturnus</i> var. <i>saturnus</i> | 4.7 | 0.0 | 69.8 | 78.7 |
| IFO 1475 | <i>Ogataea polymorpha</i> | 0.0 | 0.0 | 13.5 | 36.1 |
| IFO 0648 | <i>Kluyveromyces lactis</i> | 6.0 | 0.0 | 6.3 | 72.9 |

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 8

Medium composition: YM medium (Difco) + 5% glucose + 1% soybean oil

| Strain No. | Strains | Genus | Cultivation days | Supernatant fraction (µg/L of culture solution) | | | | Cell fraction | |
|------------|---------------------------------|-------|------------------|---|-------|-------|-------|---------------|------|
| | | | | FOH | GGOH | FOH | GGOH | FOH | GGOH |
| K 4104 | <i>Saccharomyces cerevisiae</i> | | 3 | 281.0 | 127.7 | 241.1 | 161.6 | | |
| | | | 6 | 338.2 | 186.9 | 155.3 | 132.2 | | |
| IFO 2052 | <i>Saccharomyces rosei</i> | | 3 | 220.0 | 98.0 | 305.9 | 140.2 | | |
| | | | 6 | 381.2 | 176.6 | 193.1 | 122.5 | | |
| IFO 0565 | <i>Saccharomyces cerevisiae</i> | | 3 | 49.3 | 16.0 | 88.0 | 78.2 | | |
| | | | 6 | 51.9 | 34.1 | 248.5 | 214.2 | | |
| IFO 0941 | <i>Williopsis saturnus</i> | | 3 | 54.8 | 22.6 | 255.3 | 169.3 | | |
| | var. <i>saturnus</i> | | 6 | 88.3 | 33.1 | 363.2 | 220.9 | | |
| IFO 1475 | <i>Ogataea polymorpha</i> | | 3 | 60.9 | 69.1 | 113.5 | 127.2 | | |
| | | | 6 | 19.8 | 14.4 | 60.8 | 95.9 | | |
| IFO 0648 | <i>Kluyveromyces lactis</i> | | 3 | 28.5 | 37.8 | 61.8 | 91.1 | | |
| | | | 6 | 120.3 | 124.5 | 159.8 | 211.5 | | |

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 9

Medium composition: YM medium (Difco) + 4 mg/L ergosterol + 0-20 mg/L SQAD

| Strain No. | SQAD | Days | Supernatant fraction ($\mu\text{g/L}$ of culture solution) | | | Cell fraction | | |
|-----------------------------|------|------|--|-------|------|---------------|-------|------|
| | | | NE | FOH | GGOH | NE | FOH | GGOH |
| IFO 0215 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Saccharomyces unisporus | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IFO 0538 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Saccharomyces cerevisiae | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 8.1 | 0.0 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IFO 0622 | 0 | 3 | 0.0 | 3.1 | 0.0 | 0.0 | 1.9 | 30.4 |
| Candida glabrata | 1 | | 0.0 | 3.5 | 0.0 | 0.0 | 1.4 | 24.3 |
| | 20 | | 0.0 | 243.5 | 0.0 | 0.0 | 212.0 | 57.0 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 40.5 |
| IFO 0717 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Yarrowia lopolytica | 1 | | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 39.7 | 66.5 | 0.0 | 39.7 | 63.5 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 2.1 | 0.0 | 0.0 | 1.5 | 0.0 |
| | 20 | | 0.0 | 10.6 | 0.0 | 0.0 | 10.6 | 0.0 |
| IFO 0948 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Komagataella | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 3.4 | 2.3 | 0.0 | 3.4 | 1.8 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 9 (continued)

(Continuation of Table 9)

| | | | | | | | | |
|-----------------|----|---|-----|------|------|-----|------|------|
| IFO 0974 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kuraishia | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| capsulata | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IFO 1472 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ogataea | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| glucozyma | 20 | | 0.0 | 0.0 | 18.3 | 0.0 | 0.0 | 17.5 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 |
| IFO 1892 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.9 |
| Saccharomyces | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 |
| kluyeri | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 38.5 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IFO 1910 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Candida | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| carosilignicola | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IFO 0005 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 |
| Candia | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 |
| glabrata | 20 | | 0.0 | 33.8 | 2.7 | 0.0 | 0.0 | 53.7 |
| | 0 | 7 | 0.0 | 0.0 | 0.0 | 0.0 | 20.5 | 0.0 |
| | 1 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

I: strain purchased from IFO

NE: nerolidol FOH: farnesol GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 1: 1 mg/L 20: 20 mg/L

Table 10

Medium composition: YM medium (Difco) + 5% glucose + 1% soybean oil
+ 4 mg/L ergosterol + 0-20 mg/L SQAD

| Strain No. | SQAD | Days | Supernatant fraction ($\mu\text{g/L}$ of culture solution) | | | Cell fraction | | |
|-------------------------------------|------|------|--|---------|--------|---------------|--------|-------|
| | | | NE | FOH | GGOH | NE | FOH | GGOH |
| IFO 0215 | 0 | 3 | 16.3 | 8.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| <i>Saccharomyces unisporus</i> | 1 | | 12.2 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 67.4 | 68.4 | 0.0 | 0.0 | 16.9 | 0.0 |
| | 0 | 7 | 19.6 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | | 27.3 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 20 | | 466.6 | 433.7 | 21.6 | 8.6 | 255.6 | 0.0 |
| IFO 0538 | 0 | 3 | 0.0 | 139.3 | 59.8 | 0.0 | 0.0 | 0.0 |
| <i>Saccharomyces cerevisiae</i> | 1 | | 0.0 | 102.9 | 46.2 | 0.0 | 15.5 | 0.0 |
| | 20 | | 65.9 | 9087.5 | 331.6 | 0.0 | 1465.9 | 51.0 |
| | 0 | 7 | 0.0 | 426.4 | 246.7 | 0.0 | 38.0 | 0.0 |
| | 1 | | 0.0 | 319.5 | 241.0 | 0.0 | 188.8 | 85.6 |
| | 20 | | 216.2 | 34241.4 | 1568.8 | 18.4 | 5812.1 | 266.2 |
| IFO 0622 | 0 | 3 | 0.0 | 106.1 | 112.3 | 0.0 | 28.8 | 33.6 |
| <i>Candida glabrata</i> | 1 | | 9.4 | 149.2 | 119.7 | 0.0 | 9.7 | 0.0 |
| | 20 | | 422.2 | 12186.9 | 327.2 | 0.0 | 331.6 | 9.3 |
| | 0 | 7 | 11.6 | 378.3 | 408.5 | 0.0 | 43.7 | 59.2 |
| | 1 | | 17.2 | 530.0 | 231.5 | 0.0 | 133.3 | 58.5 |
| | 20 | | 1256.9 | 22147.1 | 862.7 | 138.0 | 2750.6 | 170.5 |
| IFO 0717 | 0 | 3 | 0.0 | 8.7 | 0.0 | 0.0 | 6.7 | 0.0 |
| <i>Yarrowia lopolytica</i> | 1 | | 2.4 | 100.1 | 19.1 | 0.0 | 165.3 | 0.0 |
| | 20 | | 19.0 | 983.3 | 17.8 | 0.0 | 882.1 | 0.0 |
| | 0 | 7 | 0.0 | 95.3 | 608.0 | 0.0 | 0.0 | 38.4 |
| | 1 | | 19.0 | 405.4 | 546.8 | 0.0 | 0.0 | 0.0 |
| | 20 | | 156.7 | 6812.9 | 76.2 | 0.0 | 1025.1 | 41.8 |
| IFO 0948 | 0 | 3 | 0.0 | 73.5 | 78.9 | 0.0 | 13.8 | 42.3 |
| <i>Komagataella pastoris</i> | 1 | | 0.0 | 82.2 | 71.5 | 0.0 | 22.9 | 28.4 |
| | 20 | | 17.2 | 2956.2 | 132.5 | 0.0 | 608.4 | 80.1 |
| | 0 | 7 | 0.0 | 101.6 | 83.5 | 0.0 | 4.3 | 11.0 |
| | 1 | | 0.0 | 569.8 | 235.7 | 0.0 | 53.4 | 28.2 |
| | 20 | | 34.2 | 5513.3 | 360.4 | 0.0 | 537.5 | 84.5 |

(Continuation of Table 10)

| | | | | | | | | |
|-----------------|----|---|--------|---------|--------|-------|--------|-------|
| IFO 0974 | 0 | 3 | 0.0 | 24.8 | 11.1 | 0.0 | 3.3 | 0.0 |
| Kuraishia | 1 | | 0.0 | 1061.9 | 46.1 | 0.0 | 16.1 | 7.5 |
| capsulata | 20 | | 0.0 | 2022.7 | 262.0 | 0.0 | 149.2 | 34.8 |
| | 0 | 7 | 0.0 | 167.5 | 236.3 | 0.0 | 3.2 | 8.5 |
| | 1 | | 0.0 | 713.7 | 275.7 | 0.0 | 24.8 | 21.2 |
| | 20 | | 35.9 | 8268.5 | 680.4 | 0.0 | 362.1 | 59.7 |
| IFO 1472 | 0 | 3 | 0.0 | 34.8 | 79.8 | 0.0 | 7.4 | 20.4 |
| Ogataea | 1 | | 0.0 | 40.5 | 86.0 | 0.0 | 3.7 | 9.5 |
| glucozyma | 20 | | 0.0 | 808.8 | 278.7 | 0.0 | 41.1 | 37.5 |
| | 0 | 7 | 0.0 | 63.2 | 138.8 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 93.8 | 114.7 | 0.0 | 0.0 | 0.0 |
| | 20 | | 0.0 | 1832.0 | 513.0 | 0.0 | 73.7 | 52.6 |
| IFO 1892 | 0 | 3 | 0.0 | 70.4 | 46.1 | 0.0 | 3.7 | 0.0 |
| Saccharomyces | 1 | | 0.0 | 51.4 | 23.0 | 0.0 | 2.3 | 0.0 |
| kluyeri | 20 | | 0.0 | 62.9 | 30.7 | 0.0 | 16.5 | 0.0 |
| | 0 | 7 | 0.0 | 158.5 | 71.4 | 0.0 | 0.0 | 0.0 |
| | 1 | | 23.5 | 188.3 | 101.7 | 0.0 | 5.0 | 0.0 |
| | 20 | | 44.1 | 935.3 | 126.4 | 0.0 | 227.8 | 27.8 |
| IFO 1910 | 0 | 3 | 0.0 | 11.0 | 44.7 | 0.0 | 0.0 | 0.0 |
| Candida | 1 | | 0.0 | 20.9 | 69.3 | 0.0 | 0.0 | 0.0 |
| carosilignicola | 20 | | 0.0 | 124.9 | 127.1 | 0.0 | 8.1 | 19.6 |
| | 0 | 7 | 0.0 | 51.7 | 152.9 | 0.0 | 0.0 | 0.0 |
| | 1 | | 0.0 | 257.7 | 367.3 | 0.0 | 10.3 | 37.4 |
| | 20 | | 0.0 | 14378.1 | 2997.2 | 0.0 | 845.5 | 205.0 |
| IFO 0005 | 0 | 3 | 22.9 | 552.1 | 496.1 | 0.0 | 50.5 | 75.2 |
| Candia | 1 | | 260.0 | 6784.9 | 818.5 | 8.6 | 462.0 | 86.5 |
| glabrata | 20 | | 2384.0 | 37513.9 | 1022.9 | 423.9 | 9405.0 | 306.5 |
| | 0 | 7 | 77.1 | 1676.1 | 1434.6 | 0.0 | 41.2 | 51.2 |
| | 1 | | 546.0 | 11219.5 | 1377.8 | 9.2 | 331.7 | 77.1 |
| | 20 | | 6208.9 | 68495.6 | 3228.1 | 139.2 | 2682.5 | 217.6 |

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor

0: none 1: 1 mg/L 20: 20 mg/L

Table 11

Medium composition: YM or KB or KY medium + 1% soybean oil + 6% glucose

+ 4 mg/L ergosterol

| Medium | Strain No. | Supernatant fraction (µg/L) | | | |
|--------|---|-----------------------------|---------|---------|--------|
| | | SQAD | NE | FOH | GGOH |
| YM | IFO 0107 | 0 | 0.0 | 10.8 | 155.2 |
| | <i>Saccharomycopsis fibuligera</i> | 20 | 0.0 | 9.7 | 386.5 |
| KB | K 0876 | 0 | 0.0 | 29.0 | 0.0 |
| | <i>Pseudomonas</i> sp. | 20 | 0.0 | 7.8 | 0.0 |
| YM | IFO 1665 | 0 | 0.0 | 4.7 | 211.5 |
| | <i>Saccharomycopsis fibuligera</i> | 20 | 0.0 | 94.5 | 4214.9 |
| YM | IFO 1744 | 0 | 0.0 | 0.0 | 155.5 |
| | <i>Saccharomycopsis fibuligera</i> | 20 | 0.0 | 41.1 | 3870.1 |
| KB | K 2103 | 0 | 0.0 | 10.9 | 0.0 |
| | <i>Norcadia asteroides</i> | 20 | 0.0 | 0.0 | 0.0 |
| KY | IFO 4570 | 0 | 0.0 | 0.0 | 36.5 |
| | <i>Mucor Javanicus</i> | 20 | 0.0 | 38.8 | 343.6 |
| KY | K 4003 | 0 | 30.1 | 511.9 | 694.7 |
| | <i>Saccharomyces Hafe logos</i> van Laer | 20 | 4980.0 | 56541.1 | 3603.4 |
| KY | K 4045 | 0 | 148.1 | 870.4 | 766.8 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 24606.3 | 37772.7 | 2590.6 |
| KY | K 4102 | 0 | 17.5 | 541.1 | 711.3 |
| | <i>Saccharomyces ellipsoideus</i> | 20 | 18160.8 | 50245.8 | 3207.1 |
| KY | K 4103 | 0 | 56.4 | 753.1 | 1072.8 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 20930.8 | 53814.6 | 4589.9 |
| KY | K 4104 | 0 | 19.5 | 569.2 | 546.0 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 23620.7 | 54713.2 | 2654.4 |
| KY | IFO 0565 | 0 | 0.0 | 411.7 | 535.2 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 839.9 | 45723.6 | 2216.6 |
| KY | IFO 0210 | 0 | 37.5 | 685.5 | 362.8 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 25251.0 | 48795.6 | 1627.2 |
| KY | IFO 0346 | 0 | 0.0 | 196.2 | 278.9 |
| | <i>Schizosaccharomyces pombe</i> | 20 | 757.6 | 45282.1 | 1153.6 |
| KY | IFO 1475 | 0 | 0.0 | 236.9 | 462.7 |
| | <i>Ogataea polymorpha</i> | 20 | 0.0 | 5643.0 | 1195.1 |

Table 11 (continued)

(Continuation of Table 11)

| | | | | | |
|----|--------------------------|----|---------|---------|--------|
| KY | JCM 2169 | 0 | 0.0 | 809.8 | 241.2 |
| | Debaryomyces vanriijiae | 20 | 129.5 | 20359.5 | 2236.0 |
| | var vanriijiae | | | | |
| KY | IFO 0339 | 0 | 0.0 | 164.4 | 364.3 |
| | Saccharomyces ludwigii | 20 | 131.0 | 28498.6 | 1483.8 |
| KY | IFO 0115 | 0 | 0.0 | 254.9 | 493.6 |
| | Hanseniaspora valbyensis | 20 | 182.6 | 26807.1 | 1217.7 |
| | Valbyensis | | | | |
| KY | IFO 0648 | 0 | 0.0 | 136.4 | 433.8 |
| | Kluyveromyces lactis | 20 | 348.6 | 31785.7 | 3343.8 |
| KY | IFO 0005 | 0 | 192.8 | 861.5 | 909.0 |
| | Candida glabrata | 20 | 15504.1 | 44573.8 | 2237.1 |
| KY | IFO 0762 | 0 | 37.0 | 274.7 | 384.4 |
| | Candida solani | 20 | 1702.8 | 6574.7 | 619.1 |
| KY | IFO 1527 | 0 | 0.0 | 16.6 | 24.7 |
| | Cryptococcus humicolus | 20 | 0.0 | 49.6 | 33.4 |
| KY | IFO 1116 | 0 | 0.0 | 199.3 | 315.7 |
| | Wickerhamia fluorescens | 20 | 73.2 | 12200.1 | 1181.6 |

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 20: 20 mg/L

Treated with phosphatase

Table 12

Medium composition: YM or KB or KY medium + 1% soybean oil + 6% glucose
+ 4 mg/L ergosterol

| Medium | Strain No. | Cell fraction ($\mu\text{g/L}$) | | | |
|--------|---|-----------------------------------|--------|---------|-------|
| | | SQAD | NE | FOH | GGOH |
| YM | IFO 0107 | 0 | 0.0 | 8.1 | 24.6 |
| | <i>Saccharomycopsis fibuligera</i> | 20 | 0.0 | 4.8 | 79.9 |
| KB | K 0876 | 0 | 0.0 | 0.0 | 0.0 |
| | <i>Pseudomonas</i> sp. H21 | 20 | 0.0 | 0.0 | 0.0 |
| YM | IFO 1665 | 0 | 0.0 | 8.2 | 21.7 |
| | <i>Saccharomycopsis fibuligera</i> | 20 | 0.0 | 20.8 | 228.9 |
| YM | IFO 1744 | 0 | 0.0 | 0.0 | 42.2 |
| | <i>Saccharomycopsis fibuligera</i> | 0 | 0.0 | 29.8 | 819.1 |
| KB | K 2103 | 0 | | | |
| | <i>Norcadia asteroides</i> | 20 | | | |
| KY | IFO 4570 | 0 | 13.4 | 22.7 | 17.5 |
| | <i>Mucor Javanicus</i> | 20 | 0.0 | 15.6 | 61.7 |
| KY | K 4003 | 0 | 0.0 | 36.9 | 52.4 |
| | <i>Saccharomyces Hafe logos</i> van Laer | 20 | 291.8 | 7433.0 | 710.6 |
| KY | K 4045 | 0 | 0.0 | 69.3 | 65.8 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 3022.6 | 7893.0 | 534.5 |
| KY | K 4102 | 0 | 0.0 | 36.4 | 76.3 |
| | <i>Saccharomyces ellipsoideus</i> | 20 | 1350.0 | 6358.2 | 396.5 |
| KY | K 4103 | 0 | 0.0 | 591.7 | 39.4 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 1073.6 | 5528.9 | 369.6 |
| KY | K 4104 | 0 | 0.0 | 51.6 | 79.2 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 2409.9 | 11464.9 | 656.2 |
| KY | IFO 0565 | 0 | 0.0 | 40.2 | 54.7 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 57.3 | 5071.6 | 333.5 |
| KY | IFO 0210 | 0 | 0.0 | 119.4 | 89.6 |
| | <i>Saccharomyces cerevisiae</i> | 20 | 1698.7 | 4355.2 | 183.2 |
| KY | IFO 0346 | 0 | 0.0 | 29.7 | 82.6 |
| | <i>Schizosaccharomyces pombe</i> | 20 | 83.1 | 4826.5 | 159.4 |
| KY | IFO 1475 | 0 | 0.0 | 31.4 | 126.0 |
| | <i>Ogataea polymorpha</i> | 20 | 19.8 | 1196.1 | 402.7 |

(Continuation of Table 12)

| | | | | | |
|----|--------------------------|----|--------|--------|-------|
| KY | JCM 2169 | 0 | 0.0 | 67.2 | 54.3 |
| | Debaryomyces vanriijiae | 20 | 23.9 | 2807.0 | 492.6 |
| | var vanriijiae | | | | |
| KY | IFO 0339 | 0 | 0.0 | 41.6 | 114.7 |
| | Saccharomyces ludwigii | 20 | 0.0 | 3217.2 | 199.4 |
| KY | IFO 0115 | 0 | 0.0 | 25.2 | 76.6 |
| | Hanseniaspora valbyensis | 20 | 15.1 | 2823.5 | 185.8 |
| | Valbyensis | | | | |
| KY | IFO 0648 | 0 | 0.0 | 20.9 | 84.6 |
| | Kluyveromyces lactis | 20 | 14.5 | 1128.6 | 225.8 |
| KY | IFO 0005 | 0 | 0.0 | 34.9 | 51.7 |
| | Candida glabrata | 20 | 1193.0 | 4710.9 | 279.6 |
| KY | IFO 0762 | 0 | 16.2 | 90.5 | 126.0 |
| | Candida solani | 20 | 231.3 | 962.5 | 350.0 |
| KY | IFO 1527 | 0 | 7.8 | 16.0 | 0.0 |
| | Cryptococcus humicolus | 20 | 21.2 | 160.9 | 51.9 |
| KY | IFO 1116 | 0 | 0.0 | 15.0 | 86.5 |
| | Wickerhamia fluorescens | 20 | 32.6 | 4262.8 | 500.7 |

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 20: 20 mg/L

Treated with phosphatase

Table 13

Medium composition: KB medium + 1% soybean oil + ergosterol

| Strain No. | SQAD | Supernatant fraction ($\mu\text{g/L}$ of culture solution) | | | Cell fraction | | |
|------------------|------|--|-------|------|---------------|-------|------|
| | | NE | FOH | GGOH | NE | FOH | GGOH |
| IFO 3032 | 0 | 0.0 | 11.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bacillus | 20 | 0.0 | 22.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| Amyloliuefaciens | | | | | | | |
| IFO 3030 | 0 | 0.0 | 21.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bacillus pumilus | 20 | 0.0 | 36.6 | 0.0 | 0.0 | 6.0 | 0.0 |
| IFO 3762 | 0 | 0.0 | 6.8 | 0.0 | 0.0 | 11.2 | 0.0 |
| Staphylococcus | 20 | 0.0 | 121.4 | 0.0 | 0.0 | 292.4 | 0.0 |
| Epidermidis | | | | | | | |
| IFO 3067 | 0 | 0.0 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Micrococcus | 20 | 0.0 | 57.3 | 0.0 | 0.0 | 11.8 | 0.0 |
| Lutenus | | | | | | | |
| IFO 12146 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Exiguobacterium | 20 | 0.0 | 115.7 | 0.0 | 0.0 | 10.4 | 0.0 |
| Acetylicum | | | | | | | |

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 20: 20 mg/L

Treated with phosphatase

Table 14

Production of nerolidol (NOH), farnesol (FOH) and geranylgeraniol (GGOH) (mg/L of culture solution)

| Strains | No. | Day 3 | | | Day 10 | | | Temp. | Medium |
|---------------------------------------|------------|-------|-------|------|--------|-------|-------|-------|---------|
| | | NOH | FOH | GGOH | NOH | FOH | GGOH | | |
| <i>Alcaligenes faecalis</i> | IFO13111 | 0.00 | 0.01 | 0.11 | 0.00 | 0.04 | 0.09 | 30 | LBO-SSI |
| <i>Brevibacterium divaricatum</i> | NRRL2311 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 30 | LBO-SSI |
| <i>Brevibacterium fuscum</i> | IFO12127 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 30 | LBO-SSI |
| <i>Brevibacterium linens</i> | IFO12171 | 0.00 | 0.46 | 0.00 | 0.00 | 0.08 | 0.00 | 30 | LBO-SSI |
| <i>Candida catenulata</i> | IFO 0720 | 0.04 | 8.10 | 0.34 | 0.04 | 8.61 | 0.47 | 30 | YMO-SSI |
| <i>Candida fragicola</i> | IFO 1574 | 0.03 | 4.91 | 0.76 | 0.04 | 8.95 | 1.31 | 30 | YMO-SSI |
| <i>Candida krusei</i> | IFO 0013 | 0.04 | 6.99 | 0.29 | 0.06 | 13.65 | 0.86 | 30 | YMO-SSI |
| <i>Candida lambica</i> | IFO 1146 | 0.02 | 4.53 | 0.49 | 0.04 | 0.59 | 1.24 | 30 | YMO-SSI |
| <i>Candida maltosa</i> | IFO 1977 | 0.00 | 6.74 | 0.19 | 0.08 | 9.03 | 0.58 | 30 | YMO-SSI |
| <i>Candida mycoderma</i> | IFO 0164 | 0.02 | 5.45 | 0.20 | 0.03 | 4.69 | 0.17 | 30 | YMO-SSI |
| <i>Candida parapsilosis</i> | IFO 0708 | 0.00 | 1.76 | 0.17 | 0.01 | 5.13 | 0.25 | 30 | YMO-SSI |
| <i>Candida rugosa</i> | IFO 0591 | 0.00 | 0.90 | 0.08 | 0.00 | 4.20 | 0.19 | 30 | YMO-SSI |
| <i>Candida succiphila</i> | IFO 1911 | 0.00 | 2.44 | 0.25 | 0.00 | 0.00 | 0.00 | 30 | YMO-SSI |
| <i>Candida tropicalis</i> | IFO 0006 | | | | 0.17 | 9.04 | 0.00 | 30 | YMO-SSI |
| <i>Candida zeylanoides</i> | IFO 0719 | 0.00 | 1.43 | 0.29 | 0.00 | 7.38 | 1.24 | 30 | YMO-SSI |
| <i>Cryptococcus albidus</i> | IFO 0881 | 0.00 | 0.15 | 0.03 | 0.02 | 2.41 | 0.45 | 30 | YMO-SSI |
| <i>Cryptococcus glutinis</i> | IFO 1125 | 0.04 | 6.64 | 1.48 | 0.35 | 3.70 | 3.29 | 24 | YMO-SSI |
| <i>Dipodascus ovetensis</i> | IFO 1201 | 0.00 | 4.23 | 0.14 | 0.04 | 8.68 | 0.95 | 30 | YMO-SSI |
| <i>Haloferax volcanii</i> | IFO 14742 | 2.12 | 39.11 | 1.04 | 4.14 | 57.73 | 2.49 | 30 | HVO-SSI |
| <i>Hanseniaspora valbyensis</i> | IFO 1758 | 0.00 | 0.33 | 0.04 | 0.04 | 2.40 | 0.12 | 30 | YMO-SSI |
| <i>Issatchenkia orientalis</i> | IFO 1279 | 0.00 | 2.22 | 0.15 | 0.03 | 7.68 | 0.52 | 30 | YMO-SSI |
| <i>Kloeckera africana</i> | IFO 0868 | 1.09 | 10.90 | 0.81 | 1.10 | 6.29 | 0.17 | 30 | YMO-SSI |
| <i>Kloeckera apiculata</i> | IFO 0151 | 0.00 | 0.05 | 0.02 | 1.04 | 10.73 | 0.86 | 30 | YMO-SSI |
| <i>Kluyveromyces marxianus</i> | IFO 0617 | 0.09 | 14.48 | 0.87 | 0.13 | 16.29 | 1.71 | 30 | YMO-SSI |
| <i>Kuraishia capsulata</i> | IFO 0974 | 0.00 | 0.91 | 0.17 | 0.00 | 3.25 | 0.42 | 30 | YMO-SSI |
| <i>Mortierella ramanniana</i> | ATCC 24786 | | | | 0.00 | 0.76 | 0.13 | 24 | YMO-SSI |
| <i>Nakazawaea holstii</i> | IFO 0980 | 0.01 | 1.06 | 0.18 | 0.02 | 5.85 | 0.38 | 30 | YMO-SSI |
| <i>Pichia capsulata</i> | IFO 0984 | 0.00 | 0.63 | 0.04 | 0.04 | 4.17 | 0.11 | 30 | YMO-SSI |
| <i>Pichia henricii</i> | IFO 1477 | 0.00 | 3.20 | 0.12 | 0.00 | 3.24 | 0.00 | 30 | YMO-SSI |
| <i>Pichia holstii</i> | IFO 0980 | 0.04 | 6.22 | 0.22 | 0.04 | 2.79 | 0.65 | 30 | YMO-SSI |
| <i>Pichia naganishii</i> | IFO 1670 | 0.00 | 2.14 | 0.22 | 0.02 | 9.28 | 0.96 | 30 | YMO-SSI |
| <i>Pichia rhodanensis</i> | IFO 1272 | 0.03 | 3.34 | 0.91 | 0.46 | 26.57 | 10.29 | 30 | YMO-SSI |
| <i>Pichia saitoi</i> | IAM 4945 | 0.34 | 10.78 | 0.51 | 0.28 | 24.31 | 1.38 | 30 | YMO-SSI |
| <i>Rhodospiridium toruloides</i> | IFO 8766 | 0.88 | 6.59 | 2.47 | 0.72 | 2.47 | 2.52 | 24 | YMO-SSI |
| <i>Rhodotorula aurantina</i> | IFO 0951 | 0.01 | 3.14 | 0.18 | 0.03 | 6.11 | 0.50 | 30 | YMO-SSI |
| <i>Rhodotorula rubra</i> | IFO 0870 | 0.03 | 1.62 | 1.02 | 0.16 | 2.32 | 1.61 | 30 | YMO-SSI |
| <i>Saccharomycopsis fibuligera</i> | IFO 0105 | 0.00 | 0.06 | 1.68 | 0.00 | 5.71 | 4.79 | 30 | YMO-SSI |
| <i>Saccharomycopsis lipolytica</i> | IFO 1209 | 0.05 | 9.48 | 0.16 | 0.21 | 16.46 | 0.83 | 30 | YMO-SSI |
| <i>Schizosaccharomyces octosporus</i> | IAM4842 | 0.00 | 1.24 | 0.03 | 0.00 | 1.79 | 0.08 | 30 | YMO-SSI |
| <i>Staphylococcus aureus</i> | IFO3060 | 0.00 | 0.06 | 0.00 | 0.00 | 0.05 | 0.00 | 30 | YMO-SSI |
| <i>Torulaspora delbrueckii</i> | IFO 1626 | 0.04 | 2.33 | 0.15 | 0.06 | 5.50 | 0.36 | 30 | YMO-SSI |
| <i>Trichosporon cutaneum</i> | IFO 1198 | 0.00 | 10.23 | 0.69 | 0.00 | 0.14 | 0.09 | 30 | YMO-SSI |
| <i>Tsukamurella paurometabolum</i> | IFO12160 | 0.00 | 0.07 | 0.00 | 0.00 | 0.06 | 0.00 | 30 | YMO-SSI |
| <i>Yamadazyma farinosa</i> | IFO 0193 | 0.00 | 1.27 | 0.18 | 0.00 | 2.36 | 0.82 | 30 | YMO-SSI |
| <i>Yarrowia lipolytica</i> | IFO 0746 | 0.06 | 9.66 | 0.15 | 0.16 | 13.41 | 0.36 | 24 | YMO-SSI |
| <i>Zygosaccharomyces japonicus</i> | IFO 0595 | 0.05 | 0.77 | 0.05 | 0.10 | 2.17 | 0.15 | 30 | YMO-SSI |

Table 14 (continued)

Production of nerolidol (NOH), farnesol (FOH) and geranylgeraniol (GGOH) (mg/L of culture solution)

| Strains | IFO No. | Day 3 | | | Day 10 | | | Temp. (°C) | Medium |
|--|---------|-------|------|------|--------|------|------|---------------|----------|
| | | NOH | FOH | GGOH | NOH | FOH | GGOH | | |
| <i>Ambrosiozyma ambrosiae</i> | 10835 | 0.0 | 0.1 | 1.5 | 0.0 | 0.0 | 0.7 | 24 | YPDO-SSI |
| <i>Ambrosiozyma monospora</i> | 10751 | 0.0 | 1.0 | 0.3 | 0.0 | 4.8 | 1.4 | 24 | YMO-SSI |
| <i>Ambrosiozyma philentoma</i> | 1847 | 0.0 | 0.9 | 0.2 | 0.0 | 16.8 | 0.8 | 24 | YMO-SSI |
| <i>Ambrosiozyma platypodis</i> | 10752 | 0.0 | 1.7 | 0.1 | 0.0 | 48.6 | 1.4 | 24 | YMO-SSI |
| <i>Bensingtonia intermedia</i> | 10178 | 0.0 | 1.5 | 0.7 | 0.0 | 2.9 | 5.2 | 24 | YMO-SSI |
| <i>Botryozyma nematodophila</i> | 10830 | 0.0 | 2.5 | 0.3 | 0.0 | 5.6 | 2.8 | 24 | YPDO-SSI |
| <i>Brettanomyces anomalus</i> | 0627 | 0.0 | 18.0 | 0.4 | 0.6 | 16.7 | 0.0 | 24 | YMO-SSI |
| <i>Brettanomyces bruxellensis</i> | 0797 | 0.0 | 4.7 | 0.5 | 0.0 | 8.2 | 0.0 | 24 | YMO-SSI |
| <i>Brettanomyces custersianus</i> | 10735 | 0.0 | 0.1 | 1.4 | 0.0 | 20.0 | 0.6 | 24 | YMO-SSI |
| <i>Bullera crocea</i> | 10113 | 0.0 | 7.4 | 0.5 | 0.0 | 16.1 | 0.5 | 17 | YMO-SSI |
| <i>Bullera sinensis</i> | 10756 | 0.1 | 0.3 | 1.0 | 0.1 | 1.7 | 2.3 | 24 | YMO-SSI |
| <i>Citeromyces matritensis</i> | 0651 | 0.1 | 2.0 | 0.4 | 0.0 | 0.7 | 0.0 | 24 | YMO-SSI |
| <i>Clavispora lusitaniae</i> | 10059 | 0.0 | 1.0 | 0.3 | 0.1 | 9.2 | 9.1 | 24 | YMO-SSI |
| <i>Cystofilobasidium infirmominiatum</i> | 1057 | 5.7 | 14.9 | 2.6 | 10.8 | 48.4 | 3.6 | 24 | YMO-SSI |
| <i>Debaryomyces occidentalis</i> | 1842 | 0.0 | 0.7 | 0.2 | 0.0 | 0.4 | 4.1 | 24 | YMO-SSI |
| <i>Dekkera bruxellensis</i> | 1590 | 0.0 | 3.7 | 0.2 | 0.0 | 15.7 | 0.0 | 24 | YMO-SSI |
| <i>Dipodascus armillariae</i> | 10804 | 0.0 | 4.2 | 0.1 | 0.0 | 3.3 | 0.2 | 24 | YMO-SSI |
| <i>Dipodascus tetrasperma</i> | 10810 | 0.0 | 1.7 | 0.8 | 0.0 | 9.8 | 2.5 | 24 | YMO-SSI |
| <i>Eremascus albus</i> | 10811 | 0.0 | 0.0 | 4.8 | 0.0 | 0.0 | 3.6 | 24 | YMO-SSI |
| <i>Eremascus fertilis</i> | 0691 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 24 | YMO-SSI |
| <i>Eremothecium gossypii</i> | 1355 | 0.0 | 0.8 | 0.0 | 0.0 | 4.4 | 0.9 | 24 | YMO-SSI |
| <i>Erythrobasidium hasegawianum</i> | 1058 | 0.0 | 0.5 | 1.0 | 0.0 | 0.0 | 6.8 | 24 | YMO-SSI |
| <i>Hanseniaspora guilliermondii</i> | 1411 | 0.0 | 1.4 | 0.1 | 0.0 | 1.3 | 0.0 | 24 | YMO-SSI |
| <i>Hanseniaspora uvarum</i> | 10833 | 0.1 | 15.3 | 2.9 | 0.4 | 11.1 | 0.8 | 24 | YPDO-SSI |
| <i>Kloeckeraspora vineae</i> | 1415 | 0.4 | 3.4 | 0.3 | 0.7 | 1.2 | 0.0 | 24 | YMO-SSI |
| <i>Kockovaella imperatae</i> | 10522 | 0.0 | 3.2 | 3.5 | 0.0 | 19.5 | 6.2 | 24 | YMO-SSI |
| <i>Kodamaea ohmeri</i> | 0202 | 0.0 | 7.7 | 1.6 | 0.1 | 13.7 | 4.7 | 24 | YMO-SSI |
| <i>Kurtzmanomyces nectairei</i> | 10118 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 24 | YMO-SSI |
| <i>Leucosporidium scottii</i> | 1924 | 0.2 | 32.8 | 1.3 | 0.7 | 5.2 | 0.0 | 24 | YMO-SSI |
| <i>Lodderomyces elongisporus</i> | 1676 | 0.1 | 14.8 | 2.0 | 0.1 | 15.7 | 0.0 | 24 | YMO-SSI |
| <i>Malassezia furfur</i> | 0656 | 0.0 | 4.3 | 0.1 | 0.0 | 6.9 | 0.1 | 30 | YMOO-SSI |
| <i>Metschnikowia hawaiiensis</i> | 10791 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.2 | 24 | YPDO-SSI |
| <i>Metschnikowia krissii</i> | 1677 | 0.0 | 1.3 | 0.1 | 0.0 | 21.0 | 0.0 | 24 | YMO-SSI |
| <i>Metschnikowia lunata</i> | 1605 | 0.0 | 5.1 | 1.0 | 0.3 | 31.9 | 5.9 | 24 | YMO-SSI |
| <i>Metschnikowia pulcherrima</i> | 0863 | 0.0 | 10.5 | 0.2 | 0.1 | 15.4 | 0.3 | 24 | YMO-SSI |
| <i>Mrakia frigida</i> | 1926 | 0.5 | 25.3 | 0.3 | 0.3 | 11.3 | 0.1 | 12 | YMO-SSI |

Table 14 (continued)

Production of nerolidol (NOH), farnesol (FOH) and geranylgeraniol (GGOH) (mg/L of culture solution)

| Strains | IFO No. | Day 3 | | | Day 10 | | | Temp. (°C) | Medium |
|---|---------|-------|------|------|--------|------|------|---------------|----------|
| | | NOH | FOH | GGOH | NOH | FOH | GGOH | | |
| <i>Myxozyma lipomycoides</i> | 10351 | 0.7 | 23.3 | 5.4 | 1.3 | 35 | 1.1 | 24 | YMO-SSI |
| <i>Nadsonia commutata</i> | 10029 | 0.0 | 0.1 | 0.0 | 0.0 | 0.3 | 0.0 | 17 | YMO-SSI |
| <i>Pachysolen tannophilus</i> | 1007 | 0.0 | 0.1 | 0.1 | 0.0 | 1.9 | 1.4 | 24 | YMO-SSI |
| <i>Pichia burtonii</i> | 10837 | 0.0 | 3.0 | 1.1 | 0.0 | 7.5 | 1.7 | 24 | YMO-SSI |
| <i>Pichia misumaiensis</i> | 10221 | 0.3 | 20.8 | 1.8 | 1.0 | 14.5 | 2.0 | 24 | YMO-SSI |
| <i>Pichia ofunaensis</i> | 10709 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 24 | YMO-SSI |
| <i>Pichia pijperi</i> | 1290 | 0.5 | 5.1 | 0.6 | 0.5 | 6.4 | 0.5 | 24 | YMO-SSI |
| <i>Saccharomyces transvaalensis</i> | 1625 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30 | YMO-SSI |
| <i>Saccharomycodes sinensis</i> | 10111 | 0.1 | 0.4 | 0.0 | 0.6 | 0.8 | 0.1 | 30 | YMO-SSI |
| <i>Saccharomycopsis fibuligera</i> | 10829 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 2.8 | 24 | YPDO-SSI |
| <i>Saccharomycopsis javaensis</i> | 1848 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 24 | YMO-SSI |
| <i>Saccharomycopsis schoenii</i> | 10683 | 0.1 | 5.3 | 0.4 | 0.5 | 28.3 | 2.3 | 24 | YMO-SSI |
| <i>Saccharomycopsis synnaedendra</i> | 1604 | 0.0 | 2.8 | 1.3 | 0.0 | 1.2 | 0.0 | 24 | YMO-SSI |
| <i>Saccharomycopsis vini</i> | 1748 | 0.0 | 3.9 | 0.4 | 0.0 | 23.2 | 6.4 | 24 | YMO-SSI |
| <i>Saturnispora zaruensis</i> | 1384 | 0.0 | 0.2 | 0.1 | 0.0 | 3.0 | 1.3 | 24 | YMO-SSI |
| <i>Schizoblastosporion kobayashii</i> | 1644 | 0.0 | 4.0 | 0.9 | 0.0 | 2.8 | 4.7 | 24 | YMO-SSI |
| <i>Schizoblastosporion starkeyi-henrici</i> | 10842 | 0.0 | 0.9 | 0.2 | 0.0 | 1.1 | 0.8 | 24 | YPDO-SSI |
| <i>Sporopachydermia cereana</i> | 10013 | 0.0 | 0.6 | 0.2 | 0.2 | 0.1 | 1.2 | 24 | YMO-SSI |
| <i>Stephanoascus ciferrii</i> | 1854 | 0.0 | 0.9 | 0.1 | 0.0 | 3.3 | 0.0 | 24 | YMO-SSI |
| <i>Sterigmatomyces elviae</i> | 1843 | 0.0 | 4.5 | 0.5 | 0.1 | 10.5 | 1.8 | 24 | YMO-SSI |
| <i>Sterigmatomyces halophilus</i> | 1488 | 0.0 | 0.0 | 0.0 | 0.8 | 0.3 | 0.0 | 24 | YMO-SSI |
| <i>Sterigmatosporidium polymorphum</i> | 10121 | 0.0 | 2.4 | 0.1 | 0.0 | 15.7 | 1.3 | 24 | YMO-SSI |
| <i>Sympodiomyces parvus</i> | 10132 | 0.0 | 3.7 | 0.1 | 0.0 | 3.0 | 0.0 | 17 | YMO-SSI |
| <i>Sympodiomyces paphiopedilii</i> | 10750 | 0.0 | 1.3 | 1.0 | 0.0 | 0.8 | 1.0 | 24 | YMO-SSI |
| <i>Trichosporon brassicae</i> | 1584 | 0.0 | 13.0 | 0.7 | 0.0 | 13.2 | 0.0 | 24 | YMO-SSI |
| <i>Trichosporon pullulans</i> | 1232 | 0.2 | 10.9 | 0.2 | 0.3 | 30.5 | 1.1 | 17 | YMO-SSI |
| <i>Trigonopsis variabilis</i> | 0755 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 24 | YMO-SSI |
| <i>Tsuchiyaea wingfieldii</i> | 10204 | 0.0 | 15.3 | 0.7 | 0.0 | 17.5 | 1.4 | 24 | YMO-SSI |
| <i>Wickerhamilla domercqiae</i> | 1857 | 0.0 | 1.7 | 0.0 | 0.0 | 5.2 | 0.0 | 24 | YMO-SSI |
| <i>Xanthophyllomyces dendrorhous</i> | 10130 | 0.1 | 30.0 | 0.8 | 0.5 | 33.8 | 2.8 | 24 | YMO-SSI |
| <i>Zygozoma oligophaga</i> | 10360 | 0.1 | 6.4 | 5.3 | 0.8 | 24.3 | 5.6 | 24 | YMO-SSI |

Table 14 (continued)

Production of nerolidol (NOH), farnesol (FOH) and geranylgeraniol (GGOH) (mg/L of culture solution)

| Strains | No. | Day 3 | | | Day 9 | | | Temp. (°C) | Medium |
|------------------------------------|------------|-------|-------|------|-------|-------|------|---------------|---------|
| | | NOH | FOH | GGOH | NOH | FOH | GGOH | | |
| <i>Aciculoconidium aculeatum</i> | IFO 10124 | 0.0 | 21.3 | 1.4 | 0.0 | 26.4 | 2.3 | 24 | YMO-SSI |
| <i>Bullera pseudoalba</i> | IFO 10179 | 0.0 | 11.0 | 2.0 | 0.0 | 40.7 | 15.0 | 24 | YMO-SSI |
| <i>Candida albicans</i> | IFO 1060 | 0.2 | 108.8 | 3.5 | 0.8 | 32.9 | 4.7 | 30 | YMO-SSI |
| <i>Candida glabrata</i> | IFO 0741 | 0.3 | 19.6 | 0.6 | 3.2 | 70.1 | 4.2 | 30 | YMO-SSI |
| <i>Candida guilliermondii</i> | IFO 0566 | 0.0 | 3.9 | 0.8 | 0.0 | 4.2 | 1.1 | 30 | YMO-SSI |
| <i>Candida intermedia</i> | IFO 0761 | 0.0 | 56.2 | 2.5 | 0.1 | 87.0 | 6.2 | 30 | YMO-SSI |
| <i>Candida kefyr</i> | IFO 0706 | 0.3 | 28.2 | 2.0 | 0.7 | 15.8 | 2.9 | 30 | YMO-SSI |
| <i>Candida krusei</i> | IFO 0941 | 0.5 | 37.9 | 4.0 | 3.7 | 7.8 | 8.0 | 30 | YMO-SSI |
| <i>Candida tenuis</i> | IFO 0716 | 0.0 | 2.2 | 0.2 | 0.0 | 31.2 | 2.2 | 30 | YMO-SSI |
| <i>Candida utilis</i> | IFO 0619 | 0.2 | 42.2 | 5.5 | 0.8 | 52.5 | 11.1 | 30 | YMO-SSI |
| <i>Cryptococcus humicola</i> | IFO 0753 | 0.2 | 6.3 | 2.0 | 0.0 | 0.3 | 3.3 | 30 | YMO-SSI |
| <i>Cryptococcus terreus</i> | IFO 0727 | 0.0 | 1.2 | 0.1 | 0.2 | 1.9 | 0.3 | 30 | YMO-SSI |
| <i>Debaryomyces castellii</i> | IFO 1359 | 0.0 | 11.4 | 1.1 | 0.0 | 26.8 | 4.6 | 30 | YMO-SSI |
| <i>Fellomyces penicillatus</i> | IFO 10119 | 0.0 | 2.9 | 0.3 | 0.1 | 45.7 | 4.4 | 24 | YMO-SSI |
| <i>Filobasidium capsuligenum</i> | IFO 1185 | 0.0 | 51.0 | 1.1 | 0.2 | 106.6 | 3.6 | 24 | YMO-SSI |
| <i>Filobasidium uniguttulatum</i> | IFO 0699 | 0.0 | 28.7 | 1.3 | 0.4 | 85.4 | 8.9 | 24 | YMO-SSI |
| <i>Kloeckera corticis</i> | IFO 0633 | 0.4 | 42.8 | 2.3 | 1.2 | 62.1 | 8.2 | 30 | YMO-SSI |
| <i>Holtermannia corniformis</i> | IFO 10742 | 0.0 | 25.4 | 2.8 | 1.1 | 50.7 | 8.4 | 24 | YMO-SSI |
| <i>Kluyveromyces marxianus</i> | IFO 0617 | 0.0 | 16.6 | 0.8 | 0.4 | 35.1 | 5.0 | 30 | YMO-SSI |
| <i>Phaffia rhodozyma</i> | ATCC 66270 | 0.0 | 2.2 | 0.1 | 0.5 | 108.7 | 5.8 | 24 | YMO-SSI |
| <i>Pichia anomala</i> | IFO 0146 | 0.2 | 34.8 | 2.6 | 0.2 | 7.4 | 4.3 | 30 | YMO-SSI |
| <i>Pichia fabianii</i> | IFO 1254 | 0.0 | 14.3 | 1.5 | 0.2 | 0.1 | 4.2 | 30 | YMO-SSI |
| <i>Pichia farinosa</i> | IFO 1003 | 0.0 | 3.2 | 0.6 | 0.0 | 11.1 | 1.8 | 30 | YMO-SSI |
| <i>Pichia jadinii</i> | IFO 0987 | 0.0 | 23.1 | 2.0 | 0.1 | 24.6 | 8.3 | 30 | YMO-SSI |
| <i>Pichia polymorpha</i> | IFO 0195 | 0.3 | 21.8 | 3.2 | 0.4 | 0.6 | 5.2 | 30 | YMO-SSI |
| <i>Pichia silvicola</i> | IFO 0807 | 0.2 | 10.6 | 1.6 | 0.8 | 29.0 | 4.2 | 30 | YMO-SSI |
| <i>Rhodotorula glutinis</i> | IFO 0695 | 0.0 | 3.8 | 0.2 | 0.0 | 3.4 | 0.3 | 30 | YMO-SSI |
| <i>Rhodotorula minuta</i> | IFO 0715 | 0.3 | 6.6 | 12.0 | 3.4 | 5.0 | 0.7 | 30 | YMO-SSI |
| <i>Rhodotorula rubra</i> | IFO 0870 | 0.3 | 5.5 | 10.8 | 3.5 | 4.4 | 26.4 | 30 | YMO-SSI |
| <i>Saccharomyces cerevisiae</i> | IFO 0258 | 0.0 | 22.3 | 0.6 | 0.4 | 77.5 | 1.9 | 30 | YMO-SSI |
| <i>Saccharomyces cerevisiae</i> | IFO 2347 | 0.0 | 18.8 | 0.7 | 0.1 | 36.5 | 1.4 | 30 | YMO-SSI |
| <i>Saccharomycodes ludwigii</i> | IFO 10036 | 0.0 | 3.3 | 0.2 | 0.1 | 15.5 | 0.4 | 24 | YMO-SSI |
| <i>Saccharomycopsis fermentans</i> | IFO 10772 | 0.1 | 41.4 | 1.9 | 0.3 | 37.9 | 3.1 | 24 | YMO-SSI |
| <i>Sporidiobolus salmonicolor</i> | IFO 1035 | 0.1 | 7.9 | 1.1 | 0.1 | 42.3 | 6.4 | 30 | YMO-SSI |
| <i>Sporobolomyces salmonicolor</i> | IFO 0374 | 0.1 | 28.8 | 3.4 | 0.5 | 35.7 | 14.4 | 30 | YMO-SSI |
| <i>Trichosporiella flavificans</i> | IFO 1573 | 0.0 | 0.0 | 0.0 | 0.2 | 31.5 | 3.0 | 24 | YMO-SSI |
| <i>Trichosporon penicillatum</i> | JCM 2171 | 0.0 | 1.7 | 0.6 | 0.1 | 1.7 | 0.0 | 30 | YMO-SSI |
| <i>Williopsis californica</i> | IFO 0800 | 10.1 | 95.7 | 4.7 | 10.5 | 90.1 | 5.2 | 24 | YMO-SSI |
| <i>Willopsis saturnus</i> | IFO 0895 | 0.5 | 59.1 | 9.0 | 1.6 | 69.2 | 13.1 | 30 | YMO-SSI |
| <i>Yamadazyma farinosa</i> | IFO 0459 | 0.0 | 6.2 | 0.8 | 0.0 | 20.8 | 2.2 | 30 | YMO-SSI |
| <i>Zygoascus hellenicus</i> | IFO 10184 | 0.0 | 3.9 | 0.1 | 0.0 | 32.4 | 2.7 | 24 | YMO-SSI |